Violation of Lorentz Symmetry

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Message from the Guest Editor

As near as we can currently tell, all laws of physics in our universe are symmetric under the Lorentz group of spacetime transformations. It is one of very few laws that appear to be perfect, and is a fundamental assumption of modern physical theories. Because of its fundamental importance, it is important to continue testing it to greater and greater precision. Moreover, modern experiments probing Lorentz violations have sufficient precision to potentially acquire information regarding Planck-scale physics; this is almost unique among experiments that try to study physics beyond the Standard Model [...]

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Special Issue

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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